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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/368,635	08/04/1999	MARTIN F. ARLITT	10981718-1	5764

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EXAMINER

WOO, ISAAC M

ART UNIT	PAPER NUMBER
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2172

DATE MAILED: 10/24/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/368,635

Applicant(s)

ARLITT ET AL.

Examiner

Isaac M Woo

Art Unit

2172

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 July 2002.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) 8-15 is/are ~~withdrawn from consideration~~ cancelled.
- 5) ☒ Claim(s)        is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s)        is/are objected to.
- 8) ☐ Claim(s)        are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on        is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on        is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No.       .
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s)
- 4) ☐ Interview Summary (PTO-413) Paper No(s)
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

### **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 July 2002 has been entered.

2. Claims 1-7 are pending and claims 8-15 are canceled.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnan et al (U.S. Patent No. 6,260,061, hereinafter, "Krishnan") in view of He (U.S. Patent No. 5,734,898).

With respect to claim 1, Krishnan discloses that in a data access network system that includes content server (manager, 117, FIG. 1) coupled to a plurality of proxy servers (107, FIG. 1) via an interconnect network (Fig. 1, col. 2, lines 44-67 to col. 3, lines 1-67 to col. 4, lines 1-49),

subscription manager in the content server (manager, 117, FIG. 1) to specify all of the proxy servers (107, FIG. 1) that are subscribed to a content file stored in the content server, see (Fig. 1, col. 2, lines 44-67 to col. 3, lines 1-67 to col. 4, lines 1-49, Note: manager (content server) dynamically identifies the cooperating proxy servers that teaches manager specifies all the proxy servers). Krishnan does not explicitly disclose that consistency manager also in the content server to notify all of the subscribed proxy servers that cache the content file to discard the cache content file from those proxy server when the content file is updated in the content sever. However, He teaches that cache updates are made asynchronously between a client and server (FIG. 1, FIG. 4, FIG. 5, col. 1, lines 57-67 to col. 2, lines 1-22, col. 9, lines 19-67 to col. 10, lines 1-24) which teaches when the server has updated cache contents, then the server send out updated cache content table to the client to have client discard old version. Therefore, it would have been obvious a person having ordinary skill in the art to combine the system of He into the system of Krishnan to include the cache content file updating notification to the proxy servers. Updating cache contents to keep consistencies between proxy servers and content server synchronously would improve Internet web surfing efficiencies and allows web users to have up-to-date web information.

With respect to claim 2, Krishnan discloses that the subscription manager (117, FIG. 1) generates a subscription list that specifies all of the subscribed proxy servers (107, FIG. 1) that cache the content file when the subscription manager is notified by each of the proxy servers that it has cached the content file, see (col. 1, lines 64-67 to col. 2, lines 1-27, Note: manager (content server identifies proxy servers to exchange information).

With respect to claim 3, He discloses that the proxy servers notifies the subscription manager that it has cached the content file via an HTTP GET request with a SUB (subscription) header when the proxy server decides that the content file should be subscribed, see (col. 9, lines 20-67 to col. 10, lines 1-24).

With respect to claim 4, Krishnan discloses that if the proxy server decides that the content file is not a popular file, then that proxy server does not notify the subscription manager that it has cached the content file, see (col. 3, lines 24-67 to col. 4, lines 1-67).

With respect to claim 5, He discloses that the consistency manager notifies each of subscribed proxy servers via a DWS INV message when a content file has changed, see (FIG. 7, FIG. 8, col. 10, lines 9-67 to col. 11, lines 1-30).

With respect to claim 6, He discloses that the consistency manager also sends the updated content file to each of the proxy servers via an HTTP PUT request with a DWS SUB header, see (FIG. 7, FIG. 8, col. 10, lines 9-67 to col. 11, lines 1-30).

With respect to claim 7, He the consistency manager notifies (403) all of the proxy servers specified by the subscription manager to discard the cached contents file from the proxy servers when the content file is updated or deleted in the content server within a predetermined time interval, see (FIG. 17, col. 2, lines 36-52, FIG. 7, FIG. 8, col. 10, lines 9-67 to col. 11, lines 1-30).

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Romrell (U.S. Patent No. 2001/0002900) discloses the system for cache transparent recovery from a communication disruption.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac M Woo whose telephone number is (703) 305-0081. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y Vu can be reached on (703) 305-4393. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 308-6606 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

IMW  
October 21, 2002

  
**SHAHID AL ALAM**  
**PATENT EXAMINER**